AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims

- Claim 1 (original) A method for reinforcing a wood support piling with a composite wrapping, said method comprising:
 - (A) applying a resin to a plurality of strands;
 - (B) joining said plurality of strands to said wood support piling;
 - (C) rotating said wood support piling to form said composite wrapping around said wood support piling;
 - (D) allowing said resin to cure wherein said composite wrapping is bonded to said wood support piling.
- Claim 2 (original) The method of claim 1 wherein (A) applying a resin to a plurality of strands comprises passing said plurality of strands through an impregnator.
- Claim 3 (original) The method of claim 2 wherein said impregnator comprises a resin bath, rollers, and doctor blades to saturate said plurality of strands with said resin.

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Claim 4 (original) The method of claim 1 further comprising passing said plurality of

strands through a carriage, said carriage adapted to apply a tension to said

plurality of strands against said wood support piling.

Claim 5 (original) The method of claim 4 wherein said tension is within a range of

30-120 pounds.

Claim 6 (original) The method of claim 1 wherein said wood piling is at least 10 feet

long.

Claim 7 (original) The method of claim 1 wherein said composite wrapping covers a

portion of said wood support piling adapted to be two feet below ground

surface and four feet above ground surface when the wood support piling is

installed in the ground.

Claim 8 (original) The method of claim 1 wherein the curing of said composite

wrapping causes said composite wrapping to shrink to thereby radially

compress said wood support piling.

Claim 9 (original) The method of claim 1 wherein the wood support piling has a first

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stiffness prior to installation of the composite wrapping and a second stiffness

after installation of the composite wrapping, and wherein the second stiffness

is at least 20 percent greater than said first stiffness.

Claim 10 (original) The method of claim 1 wherein said composite wrapping is a

single, seamless layer.

Claim 11 (original) The method of claim 1 further comprising selecting said wood

support piling having a moisture content of less than 25 percent.

Claim 12 (original) The method of claim 1 wherein said wood support piling has a

moisture content within a range of 15 to 20 percent.

Claim 13 (original) The method of claim 1 wherein said composite wrapping is

bonded to said wood support piling by a mechanical bond.

Claim 14 (original) The method of claim 1 further comprising winding said plurality of

strands around said wood support piling at an angle within a range of 60-90

degrees with respect to a longitudinal axis of the wood support piling.

Claim 15 (original) The method of claim 14 wherein said angle is approximately 80

degrees.

Claim 16 (original) A method for reinforcing a wood support piling with a composite

wrapping, said method comprising:

(A) placing said wood support piling on a filament winding apparatus;

(B) applying a resin to a plurality of strands;

(C) applying said plurality of strands to said wood support piling to form a

reinforcing layer, wherein said layer is bonded to said wood support

piling.

Claim 17 (original) A reinforced support piling comprising:

a non-hollow elongate shaft having a length and an exterior surface extending

along said length; and

a composite wrapping, said composite wrapping encircling said exterior

surface along at least a portion of said length, said composite wrapping

forming a layer of substantially uniform thickness and materials;

wherein said composite wrapping applies a radial compressive force upon

said elongate shaft.

Claim 18 (original) The reinforced support piling of claim 17 wherein said non-hollow

elongate shaft is comprised of wood.

Claim 19 (original) The reinforced support piling of claim 18 wherein said non-hollow

elongate shaft has a moisture content of less than 25 percent.

Claim 20 (original) The reinforced support piling of claim 19 wherein said non-hollow

elongate shaft has a moisture content within a range of 15 to 20 percent.

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Claim 21 (original) The reinforced support piling of claim 17 wherein said non-hollow

elongate shaft is comprised of a material known to crack, thereby increasing

the radial compressive force.

Claim 22 (original) The reinforced support piling of claim 17 wherein said composite

wrapping is a single, seamless layer.

Claim 23 (original) The reinforced support piling of claim 17 wherein said non-hollow

elongate shaft is at least 10 feet long.

Claim 24 (original) The reinforced support piling of claim 17 wherein said composite

wrapping covers a portion of said non-hollow elongate shaft adapted to be two

feet below ground surface and four feet above ground surface when the

reinforced support piling is installed in the ground.

Claim 25 (original) The reinforced support piling of claim 17 wherein the non-hollow

elongate shaft has a first stiffness prior to installation of the composite

wrapping and a second stiffness after installation of the composite wrapping,

and wherein the second stiffness is at least 20 percent greater than said first

stiffness.

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Claim 27 (original) The reinforced support piling of claim 17 wherein said composite wrapping is bonded to said non-hollow elongate shaft.

Claim 28 (original) The reinforced support piling of claim 27 wherein said composite wrapping is bonded to said non-hollow elongate shaft by a mechanical bond.

Claim 29 (amended) A reinforced support pole comprising:

a non-hollow elongate shaft, said non-hollow elongate shaft having a length, an exterior surface extending along said length, and a first stiffness; and

a composite wrapping, said composite wrapping encircling said exterior surface along at least a portion of said length and applying a radial compressive force on at least a portion of the elongate shaft;

wherein said reinforced support pole has a second stiffness, said second stiffness being at least 20 percent greater than said first stiffness.

Claim 30 (original) The reinforced support piling of claim 29 wherein said second stiffness is at least 30 percent greater than said first stiffness.

Claim 31 (original) The reinforced support piling of claim 29 wherein said second stiffness is at least 35 percent greater than said first stiffness.

Claim 32 (original) The reinforced support piling of claim 29 wherein said second stiffness is at least 38 percent greater than said first stiffness.

Claim 33 (original) The reinforced support piling of claim 29 wherein said non-hollow

elongate shaft is comprised of wood.

Claim 34 (original) The reinforced support piling of claim 33 wherein non-hollow

elongate shaft has a moisture content of less than 25 percent.

Claim 35 (original) The reinforced support piling of claim 34 wherein non-hollow

elongate shaft has a moisture content within a range of 15 to 20 percent.

The reinforced support piling of claim 29 wherein said Claim 36 (canceled)

composite wrapping applies a radial compressive force upon said elongate

shaft.

Claim 37 (original) The reinforced support piling of claim 36 wherein said non-hollow

elongate shaft is comprised of a material known to crack, to thereby increase

the radial compressive force.

Claim 38 (original) The reinforced support piling of claim 29 wherein said composite

wrapping is a single, seamless layer.

Claim 39 (original) The reinforced support piling of claim 29 wherein said non-hollow

elongate shaft is at least 10 feet long.

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Claim 40 (original) The reinforced support piling of claim 29 wherein said composite

wrapping covers a portion of said a non-hollow elongate shaft adapted to be

two feet below ground surface and four feet above ground surface when the

wood support piling is installed in the ground.

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Claim 42 (original) The reinforced support piling of claim 29 wherein said composite

wrapping is bonded to said non-hollow elongate shaft.

Claim 43 (original) The reinforced support piling of claim 42 wherein said composite

wrapping is bonded to said non-hollow elongate shaft by a mechanical bond.

Claim 44 (original) A method for reinforcing a wood pole with a composite wrapping,

said method comprising:

(A) winding a multiple-tow bundle of fibers about said wood pole and

maintaining said fibers under tension within a range of 30-120 pounds;

(B) undertaking part (A) above in a manner sufficient to form said composite

wrapping of a filament-wound fiber-reinforced bonding agent;

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wherein said composite wrapping is bonded to said wood pole.

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Claim 45 (original) The method of claim 44 wherein said tension is approximately

100 pounds.

Claim 46 (original) The method of claim 44 wherein the bundle of fibers comprises

twelve tow strands.

Claim 47 (original) The method of claim 44 further comprising applying a resin to the

multiple-tow bundle of fibers with an impregnator.

Claim 48 (original) The method of claim 47 wherein said impregnator comprises a

resin bath, rollers, and doctor blades to saturate said multiple-tow bundle of

fibers with said resin.

Claim 49 (original) The method of claim 44 further comprising passing said multiple-

tow bundle of fibers through a carriage.

Claim 50 (original) The method of claim 44 wherein said wood pole is at least 10

feet long.

Claim 51 (original) The method of claim 44 wherein said composite wrapping covers

a portion of said wood pole adapted to be two feet below ground surface and

four feet above ground surface when the wood pole is installed in the ground.

Claim 52 (original) The method of claim 44 wherein curing of said composite

wrapping causes said composite wrapping to shrink to thereby radially

compress said wood pole.

Claim 53 (original) The method of claim 44 wherein the wood pole has a first

stiffness prior to installation of the composite wrapping and a second stiffness

after installation of the composite wrapping, and wherein the second stiffness

is at least 20 percent greater than said first stiffness.

Claim 54 (original) The method of claim 44 wherein said composite wrapping is a

single, seamless layer.

Claim 55 (original) The method of claim 44 further comprising selecting said wood

pole having a moisture content of less than 25 percent.

Claim 56 (original) The method of claim 44 wherein said wood pole has a moisture

content within a range of 15 to 20 percent.

Claim 57 (original) The method of claim 44 wherein said composite wrapping is

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bonded to said wood pole by a mechanical bond.

Claim 58 (original) The method of claim 44 further comprising winding said multiple-

tow bundle of fibers about said wood pole at an angle within a range of 60-90

degrees with respect to a longitudinal axis of the wood pole.

Claim 59 (original) The method of claim 58 wherein said angle is approximately 80

degrees.

Claim 60 (previously presented) A method for reinforcing a wood support piling with

a composite wrapping, said method comprising:

(A) selecting said wood support piling having a moisture content within a range

of 15 to 20 percent;

(B) placing said wood support piling on a filament winding apparatus;

(C) applying a resin to a multiple-tow bundle of fibers by passing said multiple-

tow bundle of fibers through an impregnator, said impregnator

comprising a resin bath, rollers, and doctor blades;

(D) rotating said wood support piling;

(E) winding said multiple-tow bundle of fibers about said wood support piling

and applying tension to said multiple-tow bundle of fibers during said

winding such that said tension becomes applied to said wood support

piling, and maintaining said fibers under tension within a range of 30-

120 pounds, said multiple-tow bundle of fibers being wound about said

wood support piling at an angle within a range of 60-90 degrees with

respect to a longitudinal axis of the wood support piling;

- (F) undertaking parts (C) to (E) above in a manner sufficient to form said composite wrapping of a filament-wound fiber-reinforced bonding agent;
- (G) allowing said resin to cure wherein said composite wrapping is bonded to said wood support piling with a mechanical bond;

wherein the bundle of fibers comprises twelve tow strands;

wherein said wood piling is at least 10 feet long;

- wherein said composite wrapping covers a portion of said wood support piling adapted to reside two feet below ground surface and four feet above ground surface when the wood support piling is installed in the ground;
- wherein the curing of said composite wrapping causes said composite wrapping to shrink to thereby radially compress said wood support piling;
- wherein said reinforced support piling has a second stiffness, said second stiffness being at least 35 percent greater than a first stiffness of said wood support piling without said composite wrapping;
- wherein said composite wrapping forms a layer of substantially uniform thickness; and

wherein said composite wrapping is a single, seamless layer.

Claim 61 (original) A method for reinforcing a wood pole with a composite wrapping, said method comprising:

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(A) selecting said wood pole having a moisture content of less than 25 percent;

(B) winding a multiple-tow bundle of fibers about said wood pole;

(C) undertaking part (B) above in a manner sufficient to form said composite

wrapping of a filament-wound fiber-reinforced bonding agent.

Claim 62 (original) The method of claim 61 wherein said moisture content is within a

range of 10 to 25 percent.

Claim 63 (original) The method of claim 61 wherein said moisture content is within a

range of 15 to 20 percent.

Claim 64 (original) The method of claim 61 wherein said composite wrapping is

bonded to said wood pole by a mechanical bond.

Claim 65 (previously amended) The method 61 wherein the multiple tow bundle of

fibers comprises windings that form an angle within a range of 60-90 degrees

with respect to a longitudinal axis of said wood pole.

Claim 66 (previously amended) The method of claim 65, wherein the angle formed

by the windings of the multiple tow bundle of fibers is approximately 80

degrees.

Claim 67 (original) The method of claim 6, wherein the wood piling is at least 25 feet

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long.

Claim 68 (original) The method of claim 16, wherein the part (c) further comprises forming a mechanical bond between the resin and fibers of the wood support piling.

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